OTP E 429

JC04 Rec'd PCT/PTO 12 OCT 2005

PTO/SB/21 (08-03)
Approved for use through 07/31/2006. 0/M8 0851-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

WALL STREET		Application	Number	10/541772			`
	MITTAL	Filing Date		7/1/2005			_
FO	RM	First Name	d Inventor	Hideo Hata	et al.		_
(to be used for all corresp	ondence after initial filing	Art Unit					-
		Examiner N	lame				_
		Attorney Do	ocket Number	IWI-16117			-
Total Number of Pages in	This Submission		Filing Date 7/1/2005 First Named Inventor Hideo Hata et al. Art Unit Examiner Name Hideo Hata et al. Art Unit Examiner Name Hideo Hata et al. Art Unit Examiner Name Hideo Hata et al. Altorney Docket Number IWI-16117 IVI-16117 IVI-16117 IVI-16117 IVI-16117 After Allowance communication to Group Appeal Communication to Group After Alicovate Appeal Communication to Group Appeal Communi				
		ENCLOSURES	(Check all that a				
Fee Transmittal Fo	ءm . [Drawing(s)		L to	Group		
Fee Attach	l r	_ `	ted Papers	⊢ of	Appeals peal Co	and Interferences mmunication to Group	
After Final	l l l	Petition to Cor					
A 65 doubte (e	seclaration(s)	Power of Attor	mey, Revocation		atus Lett	er	
Extension of Time	, I	¬ ' '		· 교 ·	her Encl	osure(s) (please	
Express Abandoni	· Ir	Request for R	efund				
X Information Disclo	· r	CD, Number of	of CD(s)	Return 1	Postca	rd	
Certified Copy of F	Priority	Remarks					
Document(s) Response to Missi	ing Bods/						
Incomplete Applica							
Response	to Missing Parts CFR 1.52 or 1.53						
	SIGNATU	DE OE ADDI IC	ANT ATTORNE	V OP AGEN	-		-
Firm 1	neth A. Clark	KE OF AFFEIG	ANT, ATTORISE	I, OK AGEN	<u> </u>		-
		& Clark I I D					
- Signature	KIII, TII, JACI	& Clark LL1					_
Date	10/2/						-
	19/8/0	<u>'</u>					_
	CER	TIFICATE OF T	RANSMISSION/	MAILING			_
Typed or printed name	Kathryn A. K	Callay					_
Signature	Kathrum	A. Kalla	w		Date	80d.2005	_

Signature Kuthury A. Kuthury Bate 9,00 d. 3,200 S

This collection of intermediate in equiled by 3 Cert 5, The intermediate in equiled to obtain or retain a benefit by first godie, which is to fit (end by the USPTO to obtain or retain a benefit by first godie, which is to fit (end by the USPTO to obtain or retain a benefit by first godie, which is to omplete, foreign called the propagation, and submitting the convoleted application form to the USPTO. Then will vary depending upon the individual case. Any comments on the amount of time you require to complete in foreign and submitting the convoleted application form to the USPTO. Then will vary depending upon the individual case. Any comments on the amount of time you. See that the manufact godies for the reducing but benefit, but the Child promotion Officer, U.S. Department of Comments of USPTO. Don 1450, Alexandria, VA 22313-1490, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEED 100. Commissioner for Patients, P.O. Dos 1450, Alexandria, VA 22313-1490, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEED 100. Commissioner for Patients, P.O. Dos 1450, Alexandria, VA 22313-1490, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

Approved for use through 06/30/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

$\overline{}$	Sheet	1	of	2	Attorney Docket Number	IWI - 16117	
		(Use as many sheets as	s necessai	y) .	Examiner Name		
					Art Unit		
STATEMENT BY APPLICANT					First Named Inventor	Hideo Hata	
	INFO	RMATION D	SCL	OSURE	Filing Date	July 1, 2005	
					Application Number	10/541772	
_	Substitute fo	or form 1449B/PTO				Complete If Known	

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials* Cite		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where publishery	T			
/A.S./		Japanese Patent Abstract For Publication No. 03-139569 published 13 June 1991				
		Japanese Patent Abstract For Publication No. 11-116837 published 27 April 1999	-			
		ller, "Multilayers Of Colloidal Particles," Journal of Colloid and Interface Science 21, pages 569-594 (1966)	<u> </u>			
		Lee et al., "Inorganic Analogues of Langmuir-Blodgett Films: Adsorption of Ordered Zirconium 1-10-Decanebisphosphonate" J. Am. Chem. Soc. 1988, 110, pages 618-620				
		Decher et al., "Proof of multilayer structural organization in self-assembled polycation-polyanion molecular films," Thin Solid Films, 344 (1994) pages 772-777	<u> </u>			
		Kleinfeld et al., "Stepwise Formation of Multilayered Nanostructural Films from Macromolecular Precursors," Science, Vol. 265, 15 July 1994, pages 370-373	ļ.,			
		Lvov et al., "Formation of Ultrathin Multilayer and Hydrated Gel from Montmorillonite and Linear Polycations," Langmuir 1966, 12, pages 3038-3044				
		Kotov et al., "Layer-by-Layer Self-Assembly of Alumosilicate-Polyelectrolyte Composites: Mechanism of Deposition" Chem. Mater. 1998, 10, pages 886-895				
		van Duffel et al., "Multilayered Clay Films: Atomic Force Microscopy Study and Modeling," Langmuir 1999, 15, pages 7520-7529				
V	100	Rouse, "Sol-Gel Processing of Ordered Multilayers To Produce Composite Films of Controlled Thickness," Chem. Mater. 2000, 12, pages 2502-2507				

Examiner Signature	/Ali Soroush/	Date Considered	03/28/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered, include copy of this form with next communication to applicant.

Applicants range in caliston designation number (optional), 2 Applicant's to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CF4 13.7 and 13.8 h. self-administration is required to obtain or retain a benefit by the public which is to file (and by the USFTO process) and application. Confidentially is governed by 35 U.S.C. 12 and 37 CFF1.1.4 This collection is estimated to take 2 hours to complete, including appliciting, preparing, and submitting the completed application from to the USFTO. Time with vary depending upon the individual case. Any comments on the amount of face you recycle to complete deals the terminal control gives become any of the amount of the individual case. Any comments on the amount of face you recycle to complete the term saint or suggestions for reducing the touries, about 6 sent to the Total formation Clinica. U.S. Operational of Commence, P.O. Bost 1850, Alexandria, VA 2213-14-50, Delta Total FEES OR COMPLETED FORMS TO THIS ACCRESS. SEED for COMPLETED FORMS TO THIS ACCRESS. SEED for Commence of the Patentia, P.O. Bost 1450, Alexandria, VA 2213-14-50, Delta Total FEES OR COMPLETED FORMS TO THIS ACCRESS.

Approved for use through 06/30/2006, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

_	Substitute for	or form 1449B/PTO			Complete if Known			
					Application Number	10/541772 July 1, 2005		
	INFO	RMATION D	ISCL	OSURE	Filing Date			
	STATEMENT BY APPLICANT				First Named Inventor	Hideo Hata		
					Art Unit			
		(Use as many sheets a	s necessar	(מר	Examiner Name			
_	Sheet	2	of	2	Attorney Docket Number	IWI - 16117		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²		
/A.S./		Kim et al., "Layered Aluminosilicate/Chromophore Nanocomposites and Their Electrostatic Layer-by-Layer Assembly," Chem. Mater. 2001, 13, pages 243-246	- 1		
			ļ		
			ļ		

Examiner Signature	/Ali Soroush/	Date Considered	03/28/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINE*: Initial if reference considered, whether or not claisticn is no conformance with NEPE 909. Draw line through claiflow if not in conformance and not considered, include copy of this form with next communication in application.

1 Applicant's unique claims designation number (polisma): A population is a polismated to applicate in the conformance and not conformation and the conformance and not conformation and not complete to late 2 in notice complete, including aphening, preparing, and submitting the completed applications from to the USPTO. Then will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suppositions for readinging this burden, including this burden, including in the conformation officer. U.S. Patent and Trademark Office, U.S. Department of Commence, P.O. Box 1490, Absending, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioned for Patentias, P.O. Sox 1490, Absending, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.